Temperature Sensor - TMPXX

Temperature Sensor

The AKCP Temperature sensors are of the semiconductor, microprocessor controlled type, designed to record accurate temperature data. It is compatible with all AKCP sensorProbes.

You can plug in up to 2 temperature sensors on the sensorProbe2 and up to 8 on sensorProbe8, sensorProbe8-X20 / X60. You can connect up to 8 on the securityProbe main unit and 8 more on each E-sensor8 expansion module.

All temperature sensors come with an RJ-45 male connector and can be easily plugged in to the RJ-45 jacks on the sensorProbe.

Specially designed CAT 5 cable assures a correct reading up to 100 feet, and is available in standard length of 1 foot, 15 feet, 60 feet and 100 feet, allowing the sensors to be positioned in hot spots. These temperature sensors can be extended beyond their standard length.

In some cases they can be extended up to 1,000 feet (only the TMP00 and THS00 remote type should be extended). The sensorProbe auto detects the presence of the temperature sensor once plugged into the RJ-45 port. A built in graph option is included on all sensorProbes for graphing temperature variations over a period of time.

Each temperature sensor has its own SNMP OID so that the data can be collected over network and graphed using external application like MRTG.

The temperature sensor can be read using included SNMP utilities to allow graphing and data logging at 0.5°C resolution. We also sell a Water resistant version of our Temperature Sensor Water resistant Product Code : TMPW15
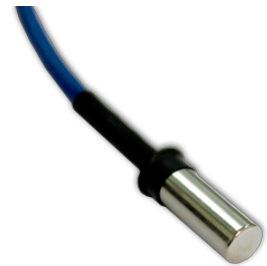
Temperature Sensor's Main Features

- **Available in 1 foot, 15 feet, 60 feet and 100 feet sizes**
- **RJ-45 connection for easy and Simple installation**
- **Full autosense including disconnect alarm**
- **TMP00 can be extended to your desired cable length using one of our CAT5**

  extension Cables, CABXX, or you can provide your own cable of any length up to 1000 feet.
- **Available in a fixed or custom length water resistant version.**

Calibration & Accuracy Information

Some industries require a certificate showing the temperature sensors are calibrated. The sensors have quite a high accuracy. The sensors are calibrated by the supplier. In general they do not need much calibration.

However, you may find that there is a deviation of possibly ±1°C for temperature and ±2%/±3% for humidity on the sensorProbe unit.

In this case you can off-set the deviation through the systems web interface using the "Reading Offset" feature to adjust the reading by your offset amount. Please see the product manual for more information on the reading offset feature.

We also have the sensor calibration certificate from our sensor electronics supplier that we can provide you with. Just email support if you would like us to send you this document.

Technical Specifications

Never needs Calibration

Measurement range Celsius : -55°C to +75°C

Measurement resolution Celsius : 1°C for the sensorProbes and 0.5°C for the securityProbe units.

Measurement accuracy Celsius : ±0.5°C accuracy from -10°C to +75°C

Measurement Range Fahrenheit : -67°F to +167°F

Measurement Resolution Fahrenheit : 1°F for the sensorProbes and 0.9°F for the securityProbe units.

Measurement Accuracy Fahrenheit : ±0.9°F accuracy from +14°F to +167°F

Tube Material : Stainless Steel

Communications Cable : RJ45 jack to temperature sensor using UTP Cat 5 wire

Sensor Type : semiconductor microprocessor controlled

Power Source: powered by the sensorProbe. No additional power needed.

Power Consumption : Typical 10.70 mWatt, 2.14mA

sensorProbe autodetects the presence of the temperature sensor

Measurement Rate : one reading every second

Up to 2 temperature sensors per sensorProbe2, 8 per sensorProbe8.

You can connect up to 8 on the securityProbe main unit and 8 more on each E-sensor8 expansion module.

Temperature Description OID : .1.3.6.1.4.1.3854.1.2.2.1.16.1.1.<port>

Temperature Status OID : .1.3.6.1.4.1.3854.1.2.2.1.16.1.4.<port>